

# Ball joint steering mechanism and associated position sensor arrangement for motor vehicle use has a robust arrangement of permanent magnet signaler whose movement is detected by a sensor

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## Abstract of DE10110738

Ball joint has a ball joint housing that accepts a ball pin (20) so that it can be rotated and tilted. Within the joint is an integrated signaler-sensor (62, 72) arrangement that detects the position of the pin relative to the housing. The pin is sealed against external effects using a hardened bearing material. The signaler is a permanent magnet with its movement detected by a magnetically sensitive sensor. The magnet is arranged on a radius from the mid point (21) of the ball pin. Independent claims are made for a device for controlling the operating parameters of a motor vehicle based on the relative position of two steering elements, a steering gear, a track rod and a method for producing a ball joint with associated position determination arrangement all associated with a motor vehicle steering assembly.

